

# CONTENTS OF VOLUME 38 (1999)—ACTA ONCOLOGICA

## No. 1

|   |     |
|---|-----|
| Editorial   | 3   |
| <i>Reviews and Controversies</i>  |     |
| Invited Editorial   |     |
| TVEIT K. M.   | 5   |
| Indications for and results of combined modality treatment of colorectal cancer   |     |
| GUNDERSON L. L.   | 7   |
| Perioperative radiotherapy in rectal cancer   |     |
| GLIMELIUS B., PAHLMAN L.  | 23  |
| <i>Original Articles</i>  |     |
| Setting priorities versus managing closures—What is the ethically most sound way of handling changes in the health care system? |     |
| HERMERÉN G.   | 33  |
| Where do we stand? Research and policy issues concerning inequalities in health and in healthcare                               |     |
| WHITEHEAD M. M.   | 41  |
| Ethics and allocation of health resources—The influence of poverty on health  |     |
| TAIPALE V.  | 51  |
| Inequalities in health—Future threats to equity   |     |
| GUNNING-SCHEPERS L. J., STRONKS K.  | 57  |
| Sliced down to the moral backbone?—Ethical issues of structural reforms in healthcare organizations                             |     |
| BROMMELS M.   | 63  |
| Data needs in studies on equity in health and access to care—Ethical considerations   |     |
| ROSEN M.  | 71  |
| Screening for early detection of cancer—Ethical aspects   |     |
| TÖRNBERG S. A.  | 77  |
| Understanding informed consent  |     |
| MACKLIN R.  | 83  |
| Misconduct in clinical research—The Scandinavian experience and actions for prevention  |     |
| RIIS P.   | 89  |
| Research misconduct in clinical research—The American experience and response   |     |
| RYAN K. J.  | 93  |
| Ethics of randomized clinical trials and the 'ALARA' approach   |     |
| ZWITTER M.  | 99  |
| An ethical analysis of the phenomenon of misconduct in research   |     |
| FORSMAN B.  | 107 |
| Stevens-Johnson syndrome in patients on phenytoin and cranial radiotherapy  |     |
| KHAFAGA Y. M., JAMSHED A., ALLAM A. A. K., MOURAD W. A., EISA A. A., EZZAT A., GRAY A. J., SCHULTZ H.                           | 111 |

|   |     |
|---|-----|
| High-grade non-Hodgkin's lymphoma treated in northern Norway—Treatment, outcome, and prognostic factors |     |
| BREMNES R. M., BREMNES Y., DONNEM T.  | 117 |
| <i>Case Report</i>  |     |
| The use of etidronate in therapy-resistant hypercalcemia  |     |
| OĞUZ A., KARADENİZ C., ÇAĞLAR ÇITAK E., ATAÖĞLU Ö.  | 125 |

## No. 2

|   |     |
|---|-----|
| <i>Reviews and Controversies</i>  |     |
| Benefits of accelerated hyperfractionation for head and neck cancer   |     |
| CUMMINGS B. J.  | 131 |
| <i>Original Articles</i>  |     |
| Potential gains using high-energy protons for therapy of malignant tumours  |     |
| GLIMELIUS B., ISACSSON U., BLUMQUIST E., GRUSELL E., JUNG B., MONTELIUS A.  | 137 |
| The CHART regimen and morbidity   |     |
| DISCHE S., SAUNDERS M. L.   | 147 |
| The mechanisms of acceleration of repopulation in squamous epithelia during daily irradiation   |     |
| TROTT K.-R.   | 153 |
| Aspects on reducing gastrointestinal adverse effects associated with radiotherapy   |     |
| HENRIKSSON R., BERGSTRÖM P., FRANZÉN L., LEWIN F., WAGENIUS G.  | 159 |
| Stereotactic radiosurgery—The role of charged particles   |     |
| LEVY R. P., SCHULTE R. W. M., SLATER J. D., MILLER D. W., SLATER J. M.  | 165 |
| Pitfalls in estimating the influence of overall treatment time on local tumor control   |     |
| TUCKER S. L.  | 171 |
| Aspects on the optimal photon beam energy for radiation therapy   |     |
| SÖDERSTRÖM S., EKLÖF A., BRAHME A.  | 179 |
| The use of TL detectors in dosimetry of systemic radiation therapy  |     |
| ASCHAN A. C., TOIVONEN M. J., LAMPINEN J. S., TENHUNEN M., KAIREMO K. J. A., KORPPI-TOMMOLA E. T., JEKUNEN A. P., SIPILÄ P., SAVOLAINEN S. E. | 189 |
| Evaluation of delivered dose changes during radiation therapy   |     |
| MISZCZYK L., WYDMAŃSKI J.   | 197 |

|   |     |
|---|-----|
| Calculated effects of displacement errors in external beam radiotherapy of prostatic adenocarcinoma<br>LENNERNÄS B., NILSSON S. . . . .   | 203 |
| Tumour oxygenation during fractionated radiotherapy—Comparison with size-matched controls<br>STÜBEN G., THEWS O., PÖTTGEN C., STUSCHKE M., SACK H. . . . .  | 209 |
| Tumor response and patterns of failure following intraoperative radiotherapy for unresectable pancreatic cancer—Evaluation by computed tomography<br>KANAMORI S., NISHIMURA Y., KOKUBO M., SASAI K., HIRAKA M., SHIBAMOTO Y., HOSOTANI R., IMAMURA M., ABE M. . . . . | 215 |
| Gamma camera imaging of platinum in tumours and tissues of patients after administration of <sup>191</sup> Pt-cisplatin<br>AREBERG J., BJÖRKMAN S., EINARSSON L., FRANKENBERG B., LUNDQVIST H., MATSSON S., NORRGREN K., SCHEIKE O., WALLIN R. . . . .                | 221 |
| Assessment of quality of life in palliative care—Psychometric properties of a short questionnaire<br>AXELSSON B., SJÖDÉN P.-O. . . . .  | 229 |
| FEC mobilized stem cells for high-dose therapy in breast cancer patients<br>LINDMAN H., WIKLUND T., HOLTE H., LJUNGMAN P., BLOMQUIST C., KVALHEIM G., BENGTSOON M., HÖGLUND M., WILKING N., THE SB6 9401 STUDY GROUP, BERGH J. . . . .                                | 239 |
| Amifostine as a protector against cisplatin-induced toxicity in nude mice<br>JOHNSSON A., WENNERBERG J. . . . .   | 247 |
| Outpatient 5-fluorouracil, folinic acid and cisplatin in patients with advanced esophageal carcinoma<br>WARNER E., JENSEN J. L., CRIPPS C., KHOO K. E., GOEL R., KERR I. A., BJARNASON G. A., FIELDS A. L. A., HRINCU A. . . . .                                      | 255 |
| Metastatic lymph-node clearance from head and neck epidermoid carcinomas following radiotherapy<br>OHARA K., TATSUZAKI H., KUROSAKI Y., FUJI H., MYO-MIN, ITAI Y., HARA A., KUSAKARI J., OGATA T. . . . .   | 261 |
| <i>Case Reports</i>   |     |
| Bone metastasis of intracranial germinoma<br>ITAMI J., KONDO T., NIINO H., SAITO K., UNO T., ARUGA M. . . . .   | 267 |
| Xanthogranulomatous pyelonephritis—A pseudo-neoplastic disease<br>PETERS F. P. J., VAN DE BEEK C., BOT F. J., JANSEN R. L. H. . . . .   | 269 |

*Miscellaneous*

|  |     |
|--|-----|
| Abstracts of Theses from the Scandinavian Countries. . . . . | 271 |
|--|-----|

**No. 3**

*Invited Editorials*

|   |     |
|---|-----|
| Survival of cancer patients in Finland, 1955–1994<br>BERRINO F. . . . .   | 275 |
| Vth Scandinavian Meeting on Radioimmuno-targeting<br>STIGBRAND T. . . . . | 281 |

*Original Articles*

|  |     |
|--|-----|
| Cancer patient survival—Patterns, comparisons, trends—A population-based cancer registry study in Finland<br>TEPPO L., DICKMAN P. W., HAKULINEN T., LUOSTARINEN T., PUKKALA E., SANKILA R., SÖDERMAN B. . . . .  | 283 |
| The rationale for early diagnosis of cancer—The example of breast cancer<br>TUBIANA M., KOSCIELNY S. . . . .   | 295 |
| Ethical management of hereditary cancer information<br>HANSSON M. G. . . . .   | 305 |
| Immunogenetic properties of genes<br>WAHREN B. . . . .   | 309 |
| Conjugate chemistry and cellular processing of EGF-dextran<br>CARLSSON J., BLOMQUIST E., GEDDA L., LILJEGREN Å., MALMSTRÖM P.-U., SJÖSTRÖM A., SUNDIN A., WESTLIN J.-E., ZHAO Q., TOLMACHEV V., LUNDQVIST H. . . . .   | 313 |
| Biokinetics of the monoclonal antibodies MOv 18, OV 185 and OV 197 labelled with <sup>125</sup> I according to the m-MeATE method or the iodogen method in nude mice with ovarian cancer xenografts<br>ANDERSSON H., LINDEGREN S., BÄCK T., JACOBSSON L., LESER G., HORVATH G. . . . . | 323 |
| Stability and immunoreactivity of the monoclonal anticytokeratin antibody TS1 after different degrees of iodination<br>JOHANSSON A., SANDSTRÖM P., ULLÉN A., ERLANDSSON A., SUNDSTRÖM B., RIKLUND AHLSTRÖM K., JOHANSSON L., HIETALA S.-O., STIGBRAND T. . . . .                       | 329 |
| Positron emission tomography and radio-immunotargeting—General aspects<br>LUNDQVIST H., LUBBERINK M., TOLMACHEV V., LÖVQVIST A., SUNDIN A., BESHARA S., BRUSKIN A., CARLSSON J., WESTLIN J.-E. . . . .   | 335 |
| Positron emission tomography and radio-immunotargeting—Aspects of quantification and dosimetry<br>LUBBERINK M., LUNDQVIST H., WESTLIN J.-E., TOLMACHEV V., SCHNEIDER H., LÖVQVIST A., SUNDIN A., CARLSSON J. . . . .   | 343 |

|  |     |
|--|-----|
| <sup>131</sup> I radioconjugated antibodies for the locoregional radioimmunotherapy of high-grade malignant glioma—Phase I and II study                          |     |
| RIVA P., FRANCESCHI G., FRATTARELLI M., RIVA N., GUIDUCCI G., CREMONINI A. M., GIULIANI G., CASI M., GENTILE R., JEKUNEN A. A., KAIREMO K. J. A.                 | 351 |
| Methods for estimating uptake and absorbed dose in tumours from <sup>125</sup> I labelled monoclonal antibodies, based on scintigraphic imaging of mice          |     |
| LARSSON A., JOHANSSON L., ROSSI NORRLUND R., RIKLUND ÅHLSTRÖM K.   | 361 |
| Cluster models in cellular level electron dose calculations  |     |
| LAMPINEN J. S., VÄLIMÄKI P. J., KURONEN A. A., STEPANEK J., SAVOLAINEN S. E.   | 367 |
| Treatment with high dose [ <sup>111</sup> In-DTPA-D-Phe]-octreotide in patients with neuroendocrine tumors—Evaluation of therapeutic and toxic effects           |     |
| JANSON E., TIENSUU, ERIKSSON B., OBERG K., SKOGSEID B., ÖHRVALL U., NILSSON S., WESTLIN J.-E.  | 373 |
| Intravesical administration of radiolabelled tumour-associated monoclonal antibody in bladder cancer   |     |
| SYRIGOS K. N., KHAWAJA M., KRAUSZ T., WILLIAMS G., EPENETOS A. A.  | 379 |
| In vivo cellular distribution and endocytosis of the somatostatin receptor-ligand complex  |     |
| LUKINIUS A., ÖHRVALL U., JAN-ERIK WESTLIN, OBERG K., TIENSUU JANSON E.   | 383 |
| <i>Obituary</i>  |     |
| Professor Börje Larsson, 1931–1998—A multidisciplinary scientist.  | 389 |
| <i>Miscellaneous</i>   |     |
| Abstracts of theses from the Scandinavian Countries  | 391 |
| Book reviews.  | 396 |
| <b>No.4</b>  |     |
| <i>Invited Editorial</i>   |     |
| In the frontline of palliative medicine and psychosocial oncology  |     |
| BOLUND C.  | 403 |
| <i>Reviews and Controversies</i>   |     |
| Radiation inhibition of arterial restenosis – A new frontier   |     |
| RUBIN P., WILLIAMS J. P., SCHELL M. C., OKUNIEFF P.  | 407 |
| <i>Original Articles</i>   |     |
| Epstein–Barr virus distribution in Hodgkin's disease in an unselected Swedish population   |     |
| ENBLAD G., SANDVEJ K., SUNDSTRÖM C., PALLESEN G., GLIMELIUS B.   | 425 |
| A <sup>252</sup> Cf-based instrument for in vivo body protein monitoring in cancer patients  |     |
| AHLGREN L., ALBERTSSON M., AREBERG J., KADAR L., LINDÉN M., MATSSON S., McNEILL F.   | 431 |
| <i>Hereditary cancer</i>   |     |
| LINDBLOM A., NORDENSKJÖLD M.   | 439 |
| Spontaneous apoptosis as a predictor of radiotherapy in patients with stage IIB squamous cell carcinoma of the uterine cervix                                    |     |
| CHUNG E. J., SEONG J., YANG W. I., PARK T. K., KIM J. W., SUH C. O., KIM G. E.   | 449 |
| Malignant ovarian germ cell tumours – A survival and prognostic analysis   |     |
| EZZAT A., RAJA M., BAKRI Y., SUBHI J., MEMON M., SCHWARTZ P., STUART R.  | 455 |
| Prognostic significance of pretherapeutic and therapeutic factors in patients with advanced cancer of the uterine cervix treated with radical radiotherapy alone |     |
| KAROLEWSKI K., KORZENIOWSKI S., SOKOŁOWSKI A., URBAŃSKI K., KOJS Z.  | 461 |
| <i>Equity in health and health care reforms</i>  |     |
| GLICK S. M.  | 469 |
| Post-traumatic stress symptoms in patients undergoing autologous stem cell transplantation   |     |
| WETTERGREN L., LANGIUS A., BJÖRKHOLM M., BJÖRVELL H.   | 475 |
| Health-related quality of life in patients with endocrine tumours of the gastrointestinal tract  |     |
| LARSSON G., VON ESSEN L., SJÖDÉN P.-O.   | 481 |
| <i>Specialist palliative care within the acute hospital setting</i>  |     |
| HOCKLEY J.   | 491 |
| Prognostic value of lymphoma-specific S-phase fraction compared with that of other cell proliferation markers  |     |
| HOLTE H., SUO Z., SMELAND E. B., KVALØY S., LANGHOLM R., STOKKE T.   | 495 |
| Prognostic significance of marker half-life during chemotherapy in non-seminomatous germ cell testicular tumors  |     |
| İNANÇ S. E., MERAL R., DARENDELİLER E., YASASEVER V., ONAT H.  | 505 |
| <i>Late medical sequelae after therapy for supradiaphragmatic Hodgkin's disease</i>  |     |
| ABRAHAMSEN A. F., LOGE J. H., HANNISDAL E., NOME O., LUND M. B., HOLTE H., KVALØY S.   | 511 |
| <i>Long-term follow-up of neoadjuvant cisplatin and 5-fluorouracil chemotherapy in bulky squamous cell carcinoma of the cervix</i>                               |     |
| MARTH C., SUNDFOR K., KAERN J., TROPÉ C.   | 517 |

*Miscellaneous*

|   |     |
|---|-----|
| Meeting Calendar                                    | 521 |
| Abstracts of Theses from the Scandinavian Countries | 525 |

**No. 5***Invited Editorial*

|   |     |
|---|-----|
| Survival of cancer in patients in Finland, 1955-1994<br>COEBERGH J. W. W. | 531 |
|---|-----|

*Review Article*

|  |     |
|--|-----|
| Tumor progression, early diagnosis and prognosis of melanoma<br>ELDER D. | 535 |
|--|-----|

*Original Articles*

|   |     |
|---|-----|
| Metastatic patterns, clinical outcome, and malignant phenotype in malignant cutaneous melanoma<br>COHN-CEDERMARK G., MÄNSSON-BRAHME E., RUTQVIST L. E., LARSSON O., SINGNOMKLAO T., RINGBORG U. | 549 |
|---|-----|

|  |     |
|--|-----|
| Genetic counselling for those with a family history of breast or ovarian cancer—Current practice and ethical issues<br>RICHARDS M. P. M. | 559 |
|--|-----|

|  |     |
|--|-----|
| Cross-comparison of two quality of life instruments used in a randomized study of combination chemotherapy in advanced breast cancer<br>WESTMAN G., AHLGREN J., JANSSON T., BERGH J. | 567 |
|--|-----|

|  |     |
|--|-----|
| A cross-sectional validation study of self-evaluation of communication experiences after laryngeal cancer—A questionnaire for use in the voice rehabilitation of laryngeal cancer patients<br>FINIZIA C., BERGMAN B., LINDSTRÖM J. | 573 |
|--|-----|

|   |     |
|---|-----|
| Study of ill-conditioning of Linac stereotactic irradiation subspaces using singular values decomposition analysis<br>PLATONI K., LEFKOPOULOS D., GRANDJEAN P., SCHLIENGER M. | 581 |
|---|-----|

|   |     |
|---|-----|
| Evaluation of an electronic portal imaging device for transit dosimetry<br>HE X., VAN ESCH A., REYMEN R., HUYSKENS D. | 591 |
|---|-----|

|  |     |
|--|-----|
| Proliferating fraction during neoadjuvant chemotherapy of primary breast cancer in relation to objective local response and relapse-free survival<br>BILLGREN A.-M., RUTQVIST L. E., TANI E., WILKING N., FORNANDER T., SKOOG L. | 597 |
|--|-----|

|  |     |
|--|-----|
| Cost-benefit analysis of 3D conformal radiation therapy—Treatment of prostate cancer as a model<br>CHO K. H., KHAN F. M., LEVITT S. H. | 603 |
|--|-----|

|   |     |
|---|-----|
| High dose etretinate and interferon-alpha—A phase I study in squamous cell carcinomas and transitional cell carcinomas<br>ROTH A. D., MORANT R., ALBERTO P. | 613 |
|---|-----|

|   |     |
|---|-----|
| Vinorelbine, ifosfamide and cisplatin in advanced non-small cell lung cancer<br>TAN E.-H., ANG P.-T., WEE J., FONG K.-W., LEONG S. S., KHOO K.-S. | 619 |
|---|-----|

|   |     |
|---|-----|
| Neuroendocrine differentiation in renal cell carcinoma—Evaluation of chromogranin A and neuron-specific enolase<br>RASMUSON T., GRANKVIST K., ROOS G., LJUNGBERG B. | 623 |
|---|-----|

|   |     |
|---|-----|
| Radioimmunosciintigraphy in patients with ovarian cancer<br>KALOFONOS H. P., GIANNAKENAS C., KOSMAS C., APOSTOLOPOULOS D., ONIENADUM A., PETSAS T., DIMOPOULOS D., EPENETOS A. A., VASSILAKOS P. J. | 629 |
|---|-----|

|  |     |
|--|-----|
| Spermatic cord sarcoma in adults<br>MERIMSKY O., TERRIER P., BONVALOT S., LE PECHOUX C., DELORD J.-P., LE CESNE A. | 635 |
|--|-----|

|  |     |
|--|-----|
| HPV positive bronchopulmonary carcinomas in women with previous high-grade cervical intraepithelial neoplasia (CIN III)<br>HENNIG E. M., SUO Z., KARLSEN F., HOLM R., THORESEN S., NESLAND J. M. | 639 |
|--|-----|

|  |     |
|--|-----|
| Measurement of serum N-acetyl $\beta$ glucosaminidase activity in patients with breast cancer<br>LUQMANI Y., TEMMIM L., MEMON A., ABDULAZIZ L., PARKAR A., ALI M., BAKER H., MOTAWY M., FAYAZ S. | 649 |
|--|-----|

|  |     |
|--|-----|
| Primary non-Hodgkin's lymphoma of the liver<br>MEMEO L., PECORELLO L., CIARDI A., AIELLO E., DE QUARTO A., DI TONDO U. | 655 |
|--|-----|

*Case Report*

|   |     |
|---|-----|
| Epitheloid hemangioendothelioma<br>PÄLSSON B. | 659 |
|---|-----|

*Letters to the Editor*

|  |     |
|--|-----|
| Breakthrough <i>Candida tropicalis</i> fungemia during ketoconazole prophylaxis in cancer patients<br>KRCMERY JR. V., SEJNOVA D., PIC-HNOVA E. | 663 |
|--|-----|

|   |     |
|---|-----|
| Laterality of laryngeal cancer<br>VIRTANIEMI J. A., HIRVIKOSKI P. P., KUMPULAINEN E. J., JOHANSSON R. T., KOSMA V.-M. | 666 |
|---|-----|

*Miscellaneous*

|   |     |
|---|-----|
| Abstracts of Theses from the Nordic Countries | 667 |
|---|-----|

**No. 6***Review Article*

|   |     |
|---|-----|
| Progress in cancer gene therapy<br>KOURAKLIS G. | 675 |
|---|-----|

*Invited Editorial*

|   |     |
|---|-----|
| Innovations and dilemmas in psychosocial oncology<br>TISHELMAN C., SPRANGERS M. | 685 |
|---|-----|

*Original Articles*

|  |     |
|--|-----|
| Cancer prevention  |     |
| TUBIANA M. . . . .   | 689 |
| Using cross-cultural input to adapt the Functional Assessment of Chronic Illness Therapy (FACIT) scales  |     |
| LENT L., HAHN E., EREMENCO S., WEBSTER K., CELLA D. . . . .  | 695 |
| Interface between research and practice in psycho-oncology   |     |
| CORNER J. . . . .  | 703 |
| Revealing response shift in longitudinal research on fatigue—The use of the thetest approach   |     |
| SPRANGERS M. A. G., VAN DAM F. S. A. M., BROERSEN J., LODDER L., WEVER L., VISSER M. R. M., OOSTERVELD P., SMETS E. M. A. . . . .  | 709 |
| Behavioral interventions in the diagnosis, treatment and rehabilitation of children with cancer  |     |
| DUHAMEL K. N., REDD W. H., JOHNSON VICKBERG S. M. . . . .  | 719 |
| Knowledge of no return—Getting and giving information about genetic risk   |     |
| SACHS L. . . . .   | 735 |
| Will cancer risk assessment and counseling services survive genetic testing?   |     |
| KELLY P. T. . . . .  | 743 |
| Illness-related distress: does it mean the same for men and women?—Gender aspects in cancer patients' distress and adjustment  |     |
| KELLER M., HENRICH G. . . . .  | 747 |
| Mental distress—Gender aspects of symptoms and coping  |     |
| RISKA E., ETTORRE E. . . . .   | 757 |
| Effects of a nursing intervention on subjective distress, side effects and quality of life of breast cancer patients receiving curative radiation therapy—A randomized study |     |
| WENGSTRÖM Y., HÄGGMARK C., STRANDER H., FORSBERG C. . . . .  | 763 |
| Disentangling ethical and psychological issues—A guide for oncologists   |     |
| LEDERBERG M. S. . . . .  | 771 |
| Small-cell lung cancer in the elderly—Is age of patient a relevant factor?   |     |
| JARA C., GÓMEZ-ALDARAVI J. L., TIRADO R., MESEGUER V. A., ALONSO C., FERNÁNDEZ A. . . . .  | 781 |
| Optimization of the dose level for a given treatment plan to maximize the complication-free tumor cure   |     |
| LIND B. K., MAVROIDIS P., HYÖDYNMAA S., KAPPAS C. . . . .  | 787 |

|   |     |
|---|-----|
| Positron emission tomography with 18-fluorodeoxyglucose in the staging and follow-up of lymphoma in the chest       |     |
| BANGERTER M., KOTZERKE J., GRIESSHAMMER M., ELSNER K., RESKE S. N., BERGMANN L. . . .                               | 799 |
| Immunoradiometric measurement of pS2 in breast cancer—Correlation with steroid receptors and plasminogen activators |     |
| LUQMANI Y., TEMMIM L., MEMON A., PARKAR A., ALI M., MOTAWY M., BAKER H. . . . .                                     | 805 |

*Miscellaneous*

|                        |     |
|------------------------|-----|
| Book reviews . . . . . | 815 |
|------------------------|-----|

**No. 7**

|  |     |
|--|-----|
| Invited Editorial  |     |
| Entering the third millennium after a century of ionizing radiation in science and oncology  |     |
| DENEKAMP J. . . . .  | 819 |
| <i>Original Articles</i>   |     |
| Life and work of Marie Skłodowska-Curie and her family   |     |
| GASIŃSKA A. . . . .  | 823 |
| Animal systems for translational research in radiation oncology  |     |
| TAGHIAN A. G., SUIT H. D. . . . .  | 829 |
| The comet assay in clinical practice   |     |
| OLIVE P. L., DURAND R. E., JACKSON S. M., LE RICHE J. C., LUO C., MA R., MCLAREN D. B., AQUINO-PARSONS C., THOMSON T. A., TROTTER T. . . . . | 839 |
| Application of magnetic resonance techniques for imaging tumour physiology   |     |
| STUBBS M. . . . .  | 845 |
| Re-treatment after full-course radiotherapy: Is it a viable option?  |     |
| STEWART F. A. . . . .  | 855 |
| Status of clinical hyperthermia  |     |
| DAHL O., DALENE R., SCHEM B. C., MELLA O. . .  | 863 |
| Clinical outcome and tumour microenvironmental effects of accelerated radiotherapy with carbogen and nicotinamide                            |     |
| BUSSINK J., KAANDERS J. H. A. M., VAN DER KOGEL A. J. . . . .  | 875 |
| Mathematical models of tumour and normal tissue response   |     |
| JONES B., DALE R. G. . . . .   | 883 |
| Evidence for two forms of substructure in the cell survival curve—Mechanisms and clinical consequences                                       |     |
| SKARSGARD L. D., HILL A. A., ACHESON D. K. .   | 895 |

|  |     |
|--|-----|
| Inducible repair and the two forms of tumour hypoxia—Time for a paradigm shift<br>DENEKAMP J., DASU A. . . . .   | 903 |
| A new incomplete-repair model based on a 'reciprocal-time' pattern of sublethal damage repair<br>DALE R. G., FOWLER J. F., JONES B. . . . .  | 919 |
| Significant difference in p53 and p21 protein immunoreactivity in HPV 16 positive and HPV negative breast carcinomas<br>HENNIG E. M., KVINNSLAND S., HOLM R., NESLAND J. M. . . . .  | 931 |
| Natural IgM and IgG antibodies to Thomsen-Friedenreich (T) antigen in serum of patients with gastric cancer and blood donors—Relation to Lewis (a,b) histo-blood group phenotype<br>KURTENKOV O., MILJUKHINA L., SMORODIN J., KLAAMAS K., BOVIN N., ELLAMAA M., CHUZMAROV V. . . . . | 939 |
| Abnormal expression of the E-cadherin-catenin complex in dysplastic Barrett's oesophagus<br>SEERY J. P., SYRIGOS K. N., KARAYIANNAKIS A. J., VALIZADEH A., PIGNATELLI M. . . . .   | 945 |
| Does the degree of cell lesion in breast cancer after inductive chemotherapy have any prognostic value?<br>TOMCZYKOWSKI J., SZUBSTARSKI F., KURYLCIO L., STANISLAWEK A., BARYCKI J., BARANOWSKI W. . . . .   | 949 |
| Radiation recall—Another call with tamoxifen<br>BOSTRÖM A., SJÖLIN-FORSBERG G., WILKING N., BERGH J. . . . .   | 955 |
| Survival of patients with squamous cell carcinoma of the supraglottic larynx—Thirty-five-year experience with radiotherapy<br>VERMUND H., BOYSEN M., EVENSEN J. F., JACOBSEN A.-B., NATVIG K., TAUSJØ J., WILEY A. L., WINTHER F. . . . .  | 961 |
| Case Report<br>Cutaneous relapse in Hodgkin's disease<br>NARAYANAN G., REKHA NAIR A., SOMINI KOSHY E., KRISHNAN NAIR M. . . . .  | 969 |
| Short Communication<br>Interferon-induced remission in aggressive fibromatosis of the lower extremity<br>FERNBERG J.-O., BROSIÖ O., LARSSON O., SÖDERLUND V., STRANDER H. . . . .  | 971 |
| Letter to the Editor<br>A novel germline mutation of the PTEN/MMAC1 gene in a patient with Cowden disease  |     |

|  |     |
|--|-----|
| SANSON M., ZHOU X.-P., BRAULT J.-L., HOANG-XUAN K., HAMELIN R. . . . . | 973 |
|--|-----|

## No. 8

## Original Articles

|  |      |
|--|------|
| Is there a role for fractionated radiotherapy in the treatment of arteriovenous malformations?<br>WIGG D. R. . . . .   | 979  |
| Smoking and survival from lung cancer<br>HOLLI K., VISAKORPI T., HAKAMA M. . . . .   | 989  |
| Metastatic pattern in non-resectable non-small cell lung cancer<br>STENBYGAARD L. E., SØRENSEN J. B., LARSEN H., DOMBERNOWSKY P. . . . .   | 993  |
| Endobronchial radiotherapy for malignant bronchial obstruction or recurrence<br>HATLEVOLL R., KARLSEN K. O., SKOV LUND E. . . . .  | 999  |
| Induction chemotherapy followed by concurrent chemoradiotherapy in stage iii unresectable non-small cell lung cancer<br>TAN E. H., WEE J., ANG P. T., FONG K. W., LEONG S. S., KHOO K. S., TAN T., LEE K. S., ENG P., HSU A., TAN Y. K., CHUA E. J., ONG Y. Y. . . . . | 1005 |
| Factors influencing the distribution of metastases and survival in extensive disease small cell lung cancer<br>TAS F., AYDINER A., TOPUZ E., CAMLICA H., SAIP P., ERALP Y. . . . .   | 1011 |
| Vincristine (vinca-alkaloid) as a sclerosing agent for malignant pleural effusions<br>VIDYASAGAR M. S., RAMANUJAM A. S., FERNANDES D. J., KOTESHWAR RAO K., JADHAV G. K. R., HOSPET C. S., SEETHARAMAIAH T., VIDYASAGAR S., SUBRAMANYAM K. . . . .                     | 1017 |
| Cancer of the mobile tongue in finland: increasing incidence, but improved survival<br>ALHO O.-P., KANTOLA S., PIKOLA U., LÄÄRÄ E., JOKINEN K., PUKKALA E. . . . .   | 1021 |
| Tumor volume and local control in primary radiotherapy of nasopharyngeal carcinoma<br>WILLNER J., BAIER K., PFREUNDNER L., FLENTJE M. . . . .  | 1025 |
| Radiation therapy and concurrent cisplatin in management of locoregionally advanced nasopharyngeal carcinomas<br>SERIN M., ERKAL H. S., ÇAKMAK A. . . . .  | 1031 |
| Changes in oxygen tension during radiotherapy of head and neck tumours<br>LYNG H., TANUM G., EVENSEN J. F., ROFSTAD E. K. . . . .  | 1037 |



|  |      |
|--|------|
| Long-term continuous 5-fluorouracil infusion in patients with advanced head and neck cancer<br>SORENSEN P., ANDERSEN L. J., HANSEN O., BASTHOLT L. . . . .   | 1043 |
| Alterations in head and neck cancer occurring in hiv-infected patients: results of a pilot, longitudinal, prospective study<br>SINGH B., SABIN S., ROHM O., SHAHA A., HAR-EL G., LUCENTE F. E. . . . .   | 1047 |
| Low-grade astrocytoma: a retrospective analysis of 102 patients<br>KANDIL A., KHAFAGA Y., ELHUSSEINY G., ALLAM A., JAMSHED A., SCHULTZ H. . . . .  | 1051 |
| Prognostic significance of the pc10 index for patients with stage ii and iii oesophageal cancer treated with radiotherapy<br>SUGAHARA S., OHARA K., TAKAHASHI A., IRIE T., WATANABE T., TANAKA N., NOZAWA K., NAKAJIMA K., ITAI Y. . . . .                                   | 1057 |
| Cost-effectiveness analysis of pegylated-liposomal doxorubicin and liposomal daunorubicin treatments in patients with kaposi's sarcoma<br>HIORTSBERG C., PERSSON U., LIDBRINK E., BENNETT C. . . . .   | 1063 |
| Epidemiological characteristics of cutaneous malignant melanoma of the head and neck: a population-based study<br>GILLGREN P., MÄNSSON-BRAHME E., FRISSELL J., JOHANSSON H., LARSSON O., RINGBORG U. . . . .   | 1069 |
| Radioimmunotherapy of du-145 tumours in nude mice: a pilot study with e4, a novel monoclonal antibody against prostate cancer<br>RYDH A., RIKLUND-ÅHLSTRÖM K., WIDMARK A., BERGH A., JOHANSSON L., TAVELIN B., NILSSON S., STIGBRAND T., DAMBER J.-E., HIETALA S.-O. . . . . | 1075 |
| Short- and long-term effects of irradiation on laryngeal mucosa of the rat<br>LIDEGREN M., FORSGREN S., DAHLQVIST A., FRANZÉN L., DOMEIJ S. . . . .  | 1081 |
| Effects of retroviral-mediated herpes simplex virus thymidine kinase gene transfer to murine neuroblastoma cell lines in vitro and in vivo<br>CHO H.-S., PARK Y. N., LYU C.-J., YANG C. H., RYOO K. Y., KIM B. S., KIM K.-Y., KIM Y.-S. . . . .                              | 1093 |
| Does bombesin-like peptide mediate radiation-induced anorexia and satiety?<br>AALTO Y., FORSGREN S., KJÖRELL U., FUNE-GÅRD U., FRANZÉN L., HENRIKSSON R. . . . .   | 1099 |
| A retrospective analysis of hickman line-associated complications in patients with solid tumours undergoing infusional chemotherapy<br>O'NEILL V. J., JEFFREY EVANS T. R., PRESTON J., MOSS J., KAYE S. B. . . . .   | 1103 |
| Patient positioning using artificial intelligence neural networks, trained magnetic field sensors and magnetic implants<br>LENNERNÄS B., EDGREN M., NILSSON S. . . . .   | 1109 |
| <i>Case Reports</i>  |      |
| Malignant teratoma of the lung<br>MAASILTA P. K., SALMINEN U.-S. E., TASKINEN E. L. . . . .  | 1113 |
| Microscopic pulmonary tumoral embolism and subacute cor pulmonale as the first clinical signs of cancer<br>MONTERO A., VIDALLER A., MITJAVILA F., CHIVITE D., PUJOL R. . . . .   | 1116 |
| Mucin-negative pseudomesotheliomatous adenocarcinoma of the lung: report of three cases<br>OKA K., OTANI S., YOSHIMURA T., HASHIMOTO T., TOBITA T., KOYAMATSU S., HAKOZAKI H., YATABE Y. . . . .   | 1119 |
| <i>Miscellaneous</i>   |      |
| Book Reviews . . . . .   | 1123 |
| Indexes . . . . .  | 1125 |